

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE X WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/abd. _____DATE FILED 1-12-87

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO. U-57469

INDIAN

DRILLING APPROVED: 1-21-87

SPUDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED OPA 10-25-88FIELD: WILDCAT

UNIT:

COUNTY: SAN JUANWELL NO. DEADMAN CANYON FEDERAL 4-20API #43-037-31305LOCATION 660' FNLFT. FROM (N) (S) LINE. 690' FWLFT. FROM (E) (W) LINE. NW NW1/4 - 1/4 SEC. 20

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				<u>37S</u>	<u>24E</u>	<u>20</u>	<u>QUINTANA PETROLEUM CORP.</u>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

1050-17th Street, Suite 400

Quintana Petroleum Corp. Denver, CO 80265 (303/628-9211)

3. ADDRESS OF OPERATOR

P.O. Box 44065

c/o PERMITCO INC. Denver, CO 80201-4065 (303/322-7878)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

660 FNL and 690' FWL

At proposed prod. zone

NW NW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

22 miles southeast of Blanding, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

1,882.54

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

approx. 2000'

19. PROPOSED DEPTH

6270'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5715' GR

22. APPROX. DATE WORK WILL START*

Immediately upon approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	2000'	760 sx or suffic. to circ. to surf.
8-3/4"	5-1/2"	15.5 & 17#	6270'	350 sx or suffic. to cover zones of interest.

Quintana Petroleum Corp. proposes to drill a well to 6270' to test the Ismay and Desert Creek formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 as a STATE.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 1-21-87

BY: John R. Bayn

WELL SPACING: 302

RECEIVED
JAN 12 1987

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

John R. Bayn

TITLE

Agent for
Quintana Petroleum Corp.

DATE

1/8/87

(This space for Federal or State office use)

PERMIT NO.

43-037-31305

APPROVAL DATE

APPROVED BY

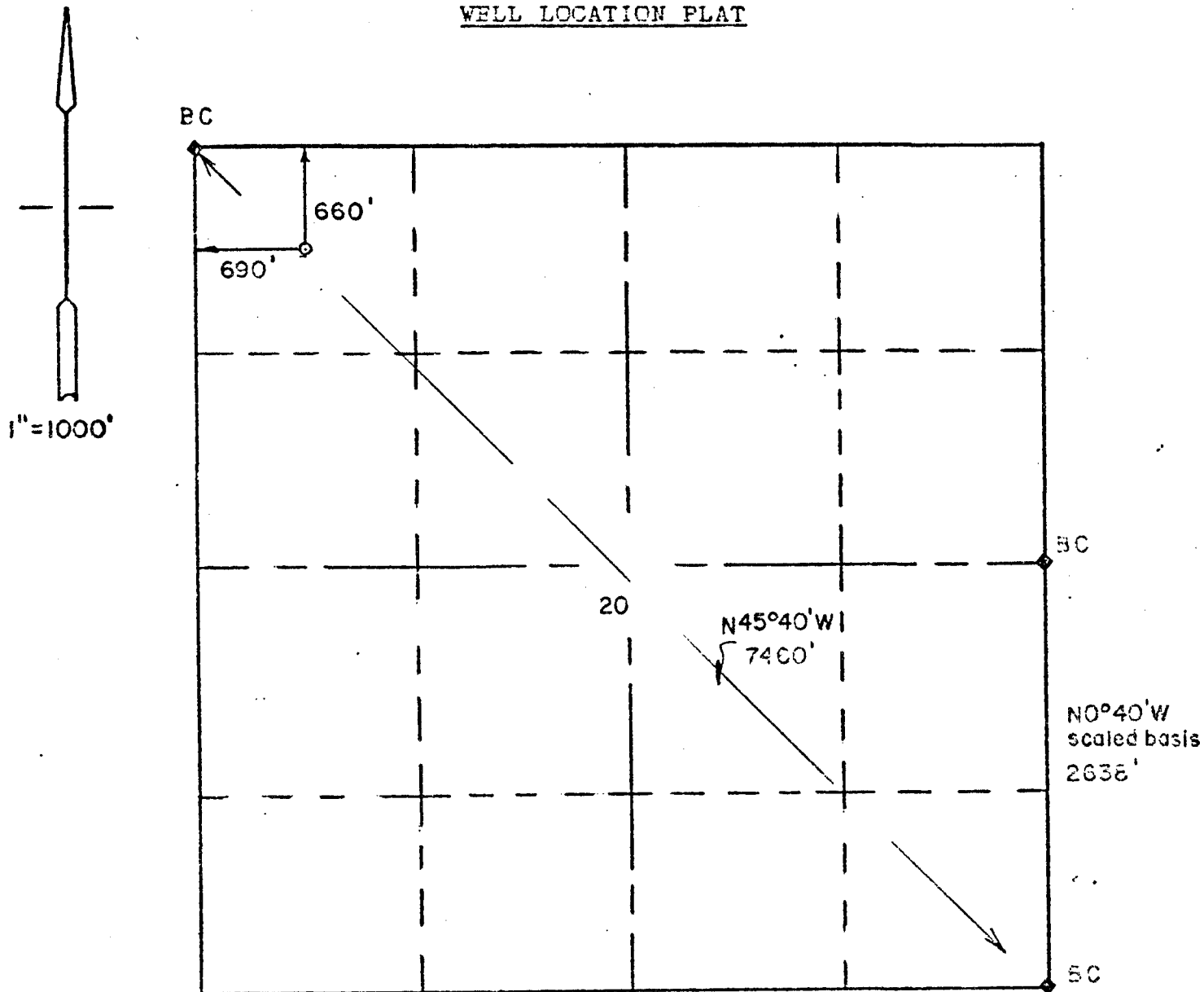
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

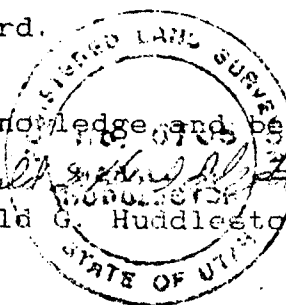
WELL LOCATION PLATWELL LOCATION DESCRIPTION:

Quintana Petroleum
 Deadman Canyon # 4-20
 660' FNL & 690' FWL
 Section 20, T.37 S., R.24 E., SLM
 San Juan County, Utah
 5715' grd. elevation
 Reference: S 41°24" E, 521', 5782 grd.

The above plat is true and correct to my knowledge and belief.

12-28-'86

Gerald G. Huddleston, LS



QUINTANA PETROLEUM CORPORATION

1050 SEVENTEENTH STREET
SUITE 400
DENVER, COLORADO 80265
(303) 628-9211

December 31, 1986

Bureau of Land Management
P. O. Box 7
Monticello, UT 84535

Re: Deadman Canyon Federal #2-20
Deadman Canyon Federal #3-20
Deadman Canyon Federal #4-20
Section 20, T37S-R24E
San Juan County, Utah

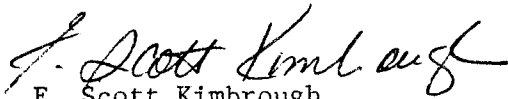
Gentlemen:

This letter is to inform you that Permitco is authorized to act as Agent and to sign documents on behalf of Quintana Petroleum Corporation when necessary for filing county, state and federal permits including Onshore Order No. 1, Right-of-Way applications, etc. for the referenced wells.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

Quintana Petroleum Corporation agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above-mentioned wells.

Very truly yours,


E. Scott Kimbrough
District Operations Engineer

cc: Lisa Green, Permitco

jp

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

QUINTANA PETROLEUM CORP.
Deadman Canyon Federal #4-20
660' FNL and 690' FWL
Section 20, T37S - R24E
San Juan County, Utah

Prepared For:

QUINTANA PETROLEUM CORP.

By:

PERMITCO INC.
P.O. Box 44065
Denver, Colorado 80201-4065

Copies Sent To:

- 4 - BLM - Moab, Utah
- 1 - BLM - Monticello, Utah
- 1 - Div. of Oil, Gas & Mining - SLC, Utah
- 4 - Quintana Petroleum Corp. - Denver, CO



ONSHORE ORDER NO. 1
Quintana Petroleum Corp.
Deadman Canyon Federal 4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

1. The surface formation and estimated formation tops to be encountered are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Morrison	Surface	
Navajo	1406'	+4326'
Chinle	1846'	+3886'
Shinarump	2719'	+3013'
Hermosa	4849'	+ 883'
Ismay	5882'	- 150'
Hovenweep Shale	6085'	- 353'
Lower Ismay	6111'	- 379'
Gothic Shale	6155'	- 423'
Desert Creek	6183'	- 451'
Akah	6267'	- 535'
T.D.	6270'	- 538'

2. The estimated depths at which oil, gas, water or other mineral bearing zones are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Oil/Gas	Ismay	5882'
Oil/Gas	Desert Creek	6183'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth cased and cemented. All oil and gas shows will be tested to determine commercial potential.

ONSHORE ORDER NO.
Quintana Petroleum Corp.
Deadman Canyon Federal 4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

DRILLING PROGRAM

3. Pressure control equipment will consist of a 10", 3000# BOP. (See BOP Diagram attached.)

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. The San Juan Resource Area will be notified 1 day before pressure testing.

4. a. Casing

The proposed casing program is as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Conductor	0-40'	17-1/2"	16"	—			
Surface	0-2000'	12-1/4"	9-5/8"	36#	K-55	ST&C	New
Produc.	0-5400'	8-3/4"	5-1/2"	15.5#	K-55	LT&C	New
Produc.	5400-6270'	8-3/4"	5-1/2"	17.0#	K-55	LT&C	New

- b. Cement

The cementing program will be as follows:

<u>Surface</u>	<u>Type and Amount</u>
0-2000'	560 sx Lite w/2% CaCl ₂ and 1/4# Cellophane flake, followed by 200 sx Class B w/2% CaCl ₂ or sufficient to circulate to surface.

<u>Production</u>	<u>Type and Amount</u>
	350 sx Class H w/6% fluid loss additive or sufficient to cover zones of interest.

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DRILLING PROGRAM

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area will be notified one day prior to running casing strings and cement.

c. Auxiliary Equipment will be as follows:

1. Kelly cock.
2. Float above the bit.
3. A sub with a full opening valve will be on the floor when the kelly is not in use.
4. Monitoring of the system will be done visually.

5. Drilling fluid will be as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-2000'	Gel/Lime	8.4-8.6	28-35	N/C	-
2000-5000'	Gel/Lime	8.4-8.6	28-35	N/C	-
5000-T.D.	Dispersed	9.0-11.0	35-50	8-10cc	11.5

6. Coring, logging and testing programs are as follows:

- a. No cores are anticipated.
- b. The logging program will consist of the following: A Dual Laterolog and BHC Sonic will be run from surface casing to T.D. A CNL Litho Density will be run from T.D. to above the Ismay formation (minimum run).
- c. Drill Stem Tests will be run in the Ismay and Desert Creek formations if shows warrant.

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Deadman Canyon Federal 4-20
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Whether the well is completed as a dry hole or as a producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.

7. Abnormal conditions, bottom hole pressures and potential hazards.
 - a. The maximum bottom hole pressure to be expected is 3400 psi.
 - b. Quintana Petroleum Corp. plans to spud the Deadman Canyon Federal #4-20 immediately upon approval of this application and intends to complete the well within approximately one month after the well has reached T.D.
 - c. The operator will contact the San Juan Resource Area at 801/587-2141, 48 hours prior to beginning any dirt work on this location.
 - d. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.
 - e. The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours of spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.

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Deadman Canyon Federal 4-20
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San Juan County, Utah

DRILLING PROGRAM

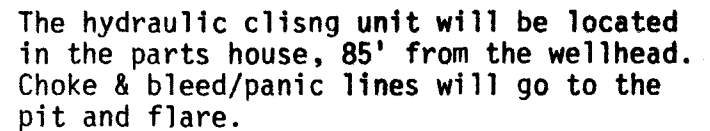
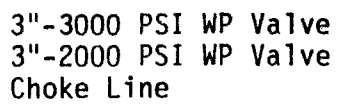
- f. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the Moab BLM District Office, P. O. Box 970, Moab, Utah 84532.
- g. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.
- h. If a replacement rig is planned for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.
- i. If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five business days following the date on which the well is placed on production.
- j. No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.
- k. Final abandonment will not be approved until surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager or his representative, or the appropriate surface Manager.

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Deadman Canyon Federal 4-20
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DRILLING PROGRAM

1. Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.
- m. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Fed, Well number, location by 1/4 1/4 section, township and range, lease number.
- n. A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.
- o. The following may be inspected and/or witnessed:
 1. The cementing and testing of surface casing, testing BOP's.
 2. (Dry Hole) Setting and testing of surface casing shoe plug.
 3. (Depleted Producer) The setting and testing of plugs across producing horizon and if applicable the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.
- p. Notify the San Juan Resource area (Mike Wade) one day or (on a dry hole) as soon as possible prior to the above at (801) 587-2141 (W) or (801) 587-2026 (H). If unable to reach Mike, call Moab District Office - Greg Noble at (801) 259-6111 (W) or (801) 259-8811 (H).

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ONSHORE ORDER NO. 1
Quintana Petroleum Corp.
Deadman Canyon Federal 4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

SURFACE USE PLAN

ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

- a. The proposed well site is located 22 miles east of Blanding, Utah.
- b. Directions to the location from Blanding are as follows:

Go south on Highway 47 for 1.5 miles. Turn east onto the County Road and proceed 1.3 miles. Turn south on the County Road (Perkins #206) and proceed southwesterly for approximately 15 miles. Turn north onto County Road (Alkali #204) and proceed 2.7 miles. Turn right (east) onto the graded road leading to the Deadman Canyon #1-20 and proceed 3/4 mile. Turn left and proceed north and east 1.0 miles. Before reaching the 1-20 wellpad, turn left and proceed on an existing seismic trail (flagged) approximately 2000' to the #3-20 wellpad. Proceed across the pad and continue an additional 2300 feet to the proposed location.
- c. The roads in the area are primarily county roads. See Maps #1 and #2.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. An encroachment permit will be obtained from the San Juan County Road Department, 801/587-2231, ext. 43.

2. Planned Access Roads

- a. The last 2300 feet will be new access. The road will be flat bladed initially during construction and upgraded if production is established.

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SURFACE USE PLAN

2. Planned Access Roads (cont.)

- b. The maximum total disturbed width will be 30 feet.
- c. The grade will be 10% or less.
- d. Turnouts will be installed as needed. No culverts will be needed at this time.
- e. Each fence which is crossed by the road will be braced as shown in Enclosure number 1, and tied off before cutting to prevent slackening of the wire. A gate or cattleguard which must be approved by BLM, will be installed.
- f. If road construction cuts through natural topography which serves as a livestock barrier, a fence shall be constructed as shown in Enclosure 1.
- g. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.
- h. The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drilling rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.
- i. The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

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SURFACE USE PLAN

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. (See Map #3).
 - a. Water Wells - none
 - b. Injection or disposal wells - none
 - c. Producing Wells - one (#1-20 waiting on completion)
 - d. Drilling Wells - none

4. Location of Tank Batteries and Production Facilities.
 - a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be neutral to match the trees.
 - b. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.
 - c. A central tank battery will be constructed at the Deadman Canyon Federal #1-20 location. If the Deadman Canyon Federal #4-20 is productive, a diagram will be submitted showing proposed facility layout.
 - d. All loading lines will be placed inside the berm surrounding the tank battery.
 - e. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.

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SURFACE USE PLAN

4. Production Facilities (cont.)

- f. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
- g. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.
- h. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- i. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Moab District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from a private source.
- b. Water will be trucked to location over the county roads in the area.
- c. No water well is to be drilled on this lease.

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SURFACE USE PLAN

5. Water Supply (cont.)

- d. Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, 801/637-1303, and by receiving permission from the land owner of surface management agency to use the land containing the water source.

6. Source of Construction Material

- a. Road surfacing material will be obtained from a commercial source. Pad construction material will be native.
- b. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Construction material will be located on lease.

7. Methods for Handling Waste Disposal

- a. The reserve pit will be lined with native clay sufficient to prevent seepage. At least half of the capacity will be in cut.
- b. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.
- c. A trash pit will be constructed near the mud tanks and dug at least six feet into solid, undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free. If a trash cage is used, its contents will be hauled to an approved landfill.
- d. A burning permit is required for burning trash between May 1 and October 31. This will be obtained from the San Juan County Sheriff at (801) 587-2237 if operations should extend past May 1st.

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SURFACE USE PLAN

7. Methods for Handling Waste Disposal (cont.)

- e. Produced waste water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 90-day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTE-2B).

8. Ancillary Facilities

- a. There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. See Diagram #1 for rig layout. See Diagram #2 for cross section of drill pad. See Diagram #3 for cuts and fills.
- b. The location of mud tanks; reserve, burn and trash pits; pipe racks; living facilities and soil stockpiles will be shown on Diagram #1 and #3. The location will be laid out and constructed as discussed during the predrill conference.
- c. The top 6 inches of soil material will be removed from the location and stockpiled separate from the trees on the south side of the location. Topsoil along the access will be reserved in place.
- d. Access to the well pad will be from the east.

10. Reclamation

- a. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.

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SURFACE USE PLAN

10. Reclamation of Surface (cont.)

- b. The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801/587-2141) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.
- f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 Feet
2-4%	Every 100 Feet
4-5%	Every 75 Feet
5+%	Every 50 Feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.
 - 4 lbs/acre Galleta (*Hilaria jamesii*)
 - 6 lbs/acre Western wheatgrass (*Agropyron smithii*)
 - 2 lbs/acre Desert bitterbrush (*Purshia glandulosa*)
- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

ONSHORE ORDER NO. 1
Quintana Petroleum Corp.
Deadman Canyon Federal 4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

SURFACE USE PLAN

10. Reclamation of Surface (cont.)

- i. The reserve pit and that portion of the location and access road not needed for production and production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. a. Surface Ownership

Federal

b. Mineral Ownership

Federal

12. Other Information

- a. There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.
- b. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.
- c. The dirt contractor will be provided with an approved copy of the surface use plan.
- d. If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will be done by a BLM approved archeologist only if damage occurs.

ONSHORE ORDER NO.
Quintana Petroleum Corp.
Deadman Canyon Federal 4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

SURFACE USE PLAN

12. Other Information (cont.)

- e. This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.
- f. An archeological study was conducted by IaPlata Archeological Consultants. No significant cultural resources were found and clearance is recommended. A copy of this report will be submitted directly by IaPlata Archeological Consultants.
- g. Your contact with the District Office is: Greg Nobel, 801/259-6111, P.O. Box 970, Moab, Utah 84532.

The Resource Area Manager's address is P.O. Box 7, Monticello, Utah 84532. Your contact is Richard McClure, 801/587-2141.

13. Lessee's or Operator's Representative and Certification

Permit Matters

Permitco Inc.

Lisa L. Green

P.O. Box 44065

Denver, CO 80201-4065

303/322-7878

Drilling & Completion Matters

Quintana Petroleum Corp.

1050-17th St.

Suite 400

Denver, CO 80265

303/628-9211 (W) -

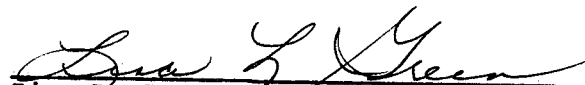
303/969-9468 (H) - Scott Kimbrough

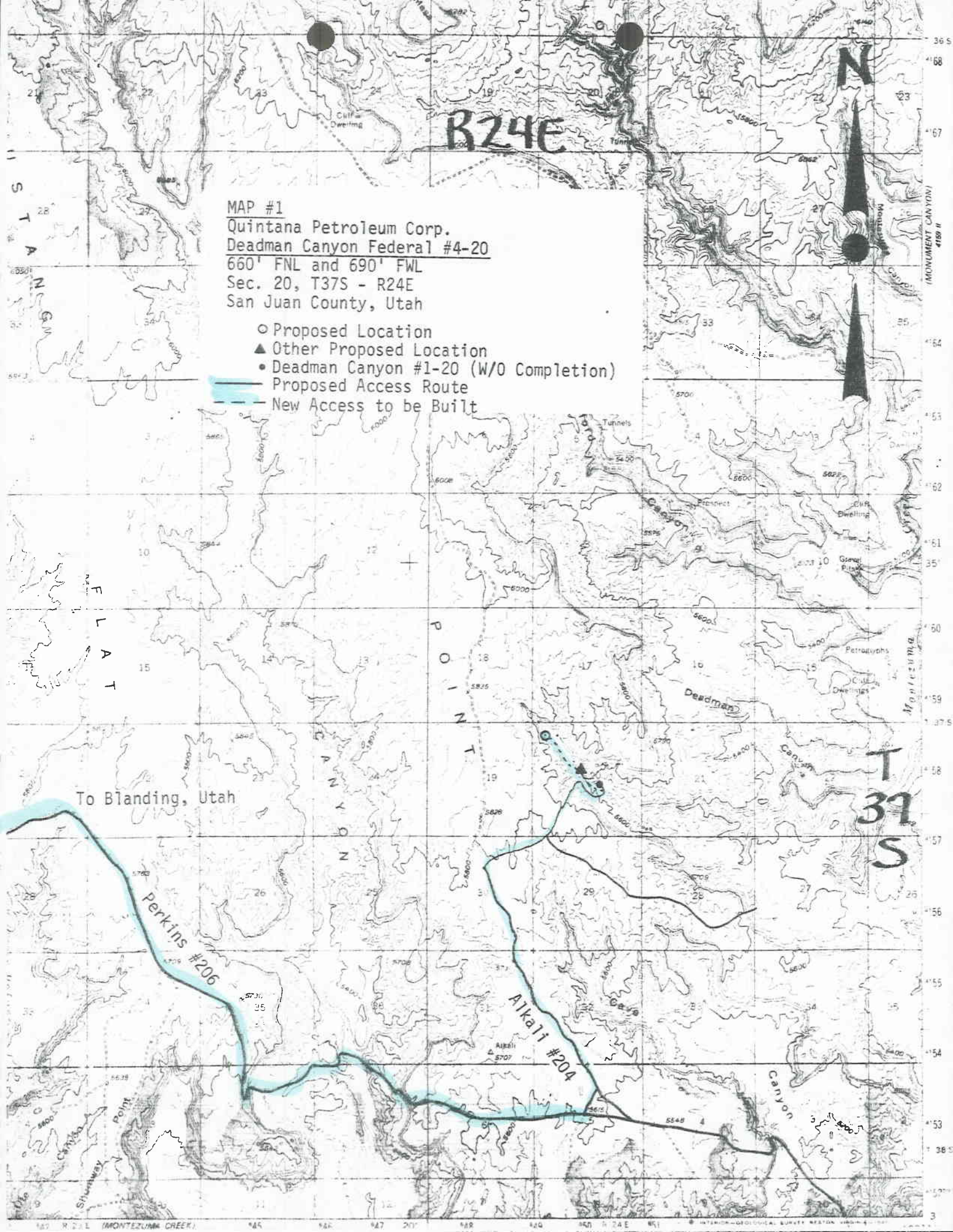
Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Quintana Petroleum Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

January 8, 1987

Date:


Lisa L. Green - PERMITCO INC.
Authorized Agent for:
QUINTANA PETROLEUM CORP.



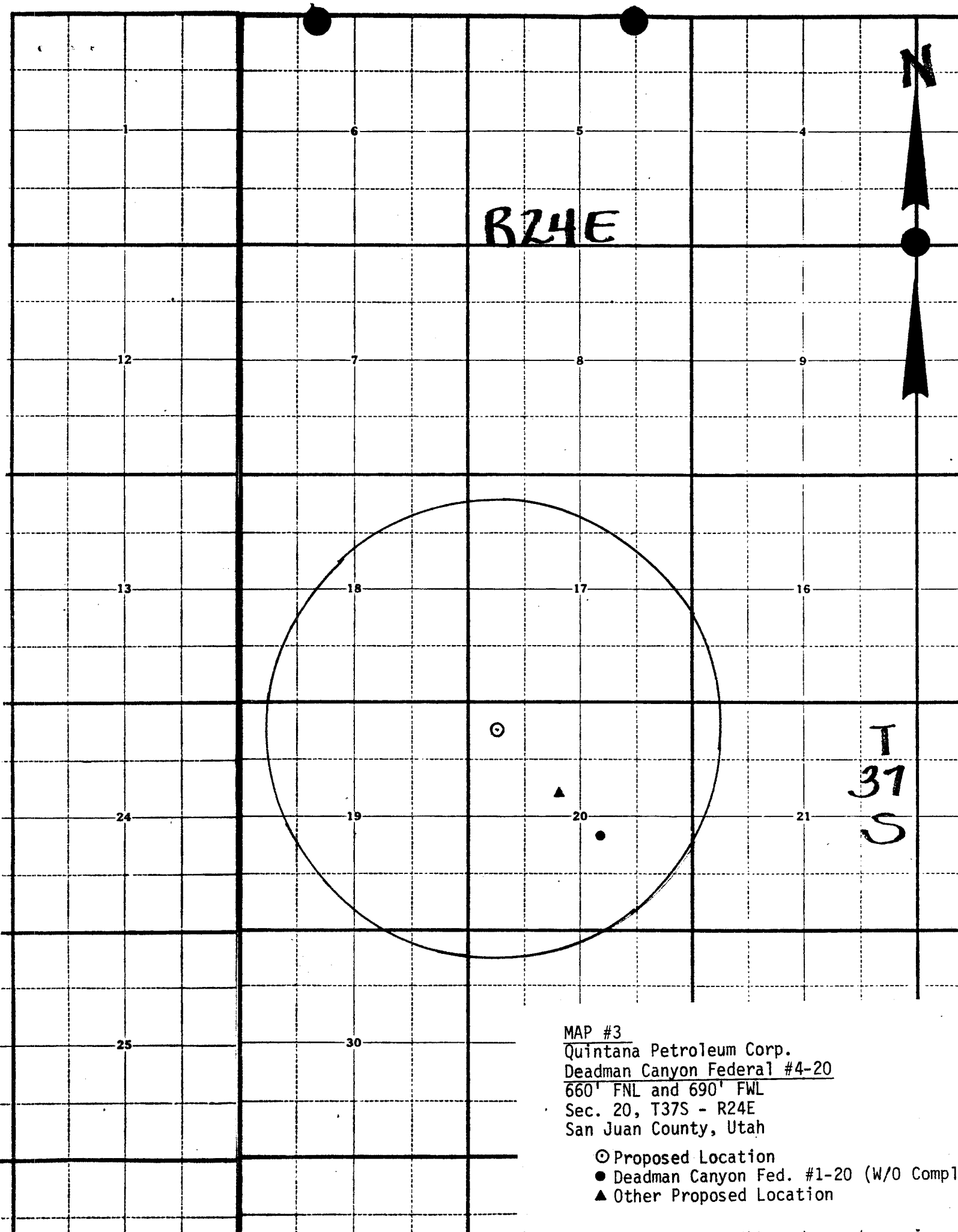
MAP #1
Quintana Petroleum Corp.
Deadman Canyon Federal #4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

- Proposed Location
- ▲ Other Proposed Location
- Deadman Canyon #1-20 (W/O Completion)
- Proposed Access Route
- - - New Access to be Built



MAP #2
Quintana Petroleum Corp.
Deadman Canyon Federal #4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

- Proposed Location
- Deadman Canyon #1-20 (W/O Completion)
- ▲ Other Proposed Location
- Proposed Access Route
- - - New Access to be Built



R24E

T
37
S

MAP #3
Quintana Petroleum Corp.
Deadman Canyon Federal #4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

- Proposed Location
- Deadman Canyon Fed. #1-20 (W/O Completion)
- ▲ Other Proposed Location

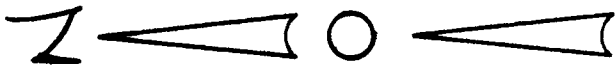
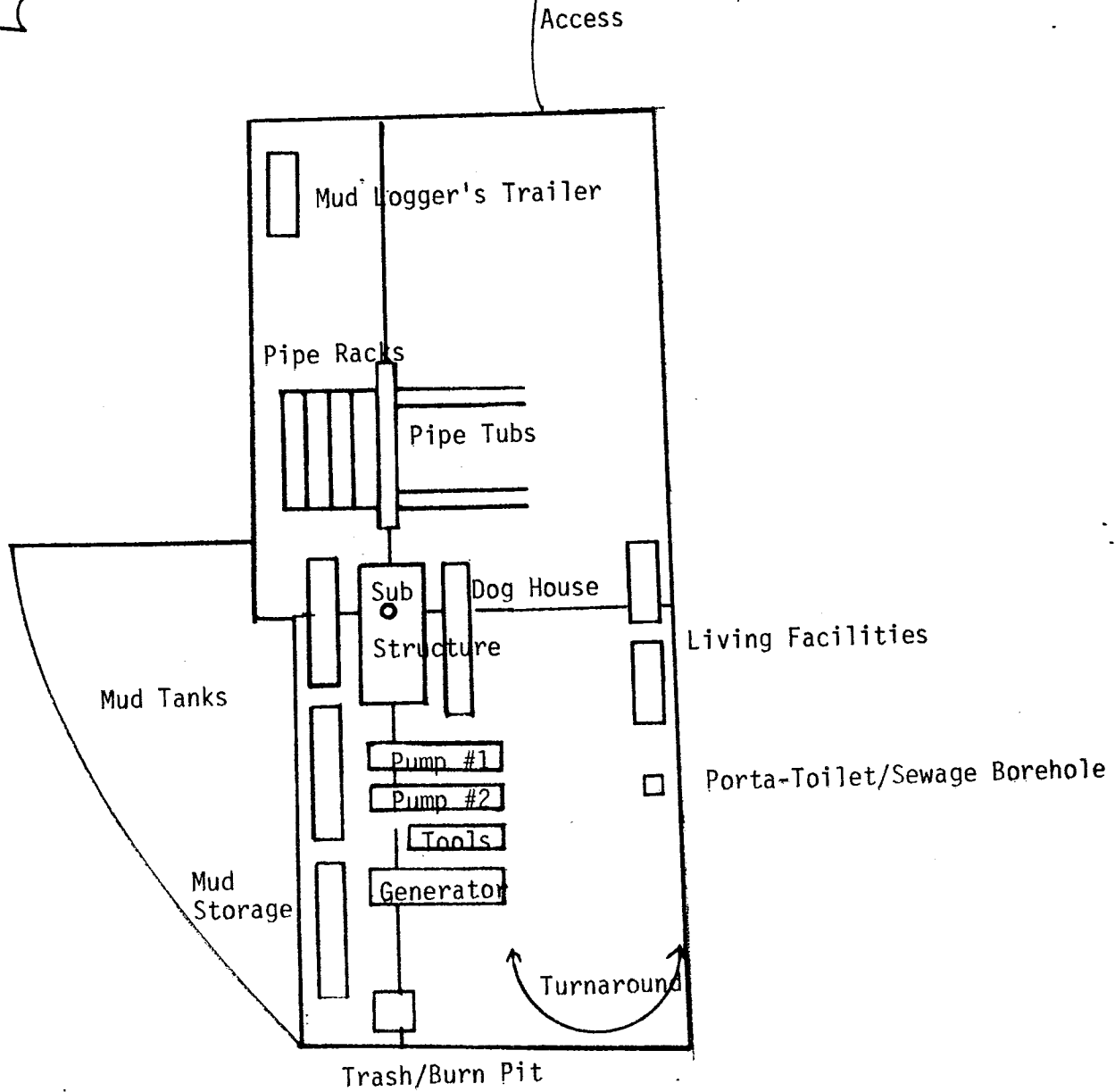




DIAGRAM #1
Rig Layout
Quintana Petroleum Corp.
Deadman Canyon Federal #4-20
660' FNL and 690' FWL
Sec. 20, T37S - R24E
San Juan County, Utah

Scale: 1" = 60'



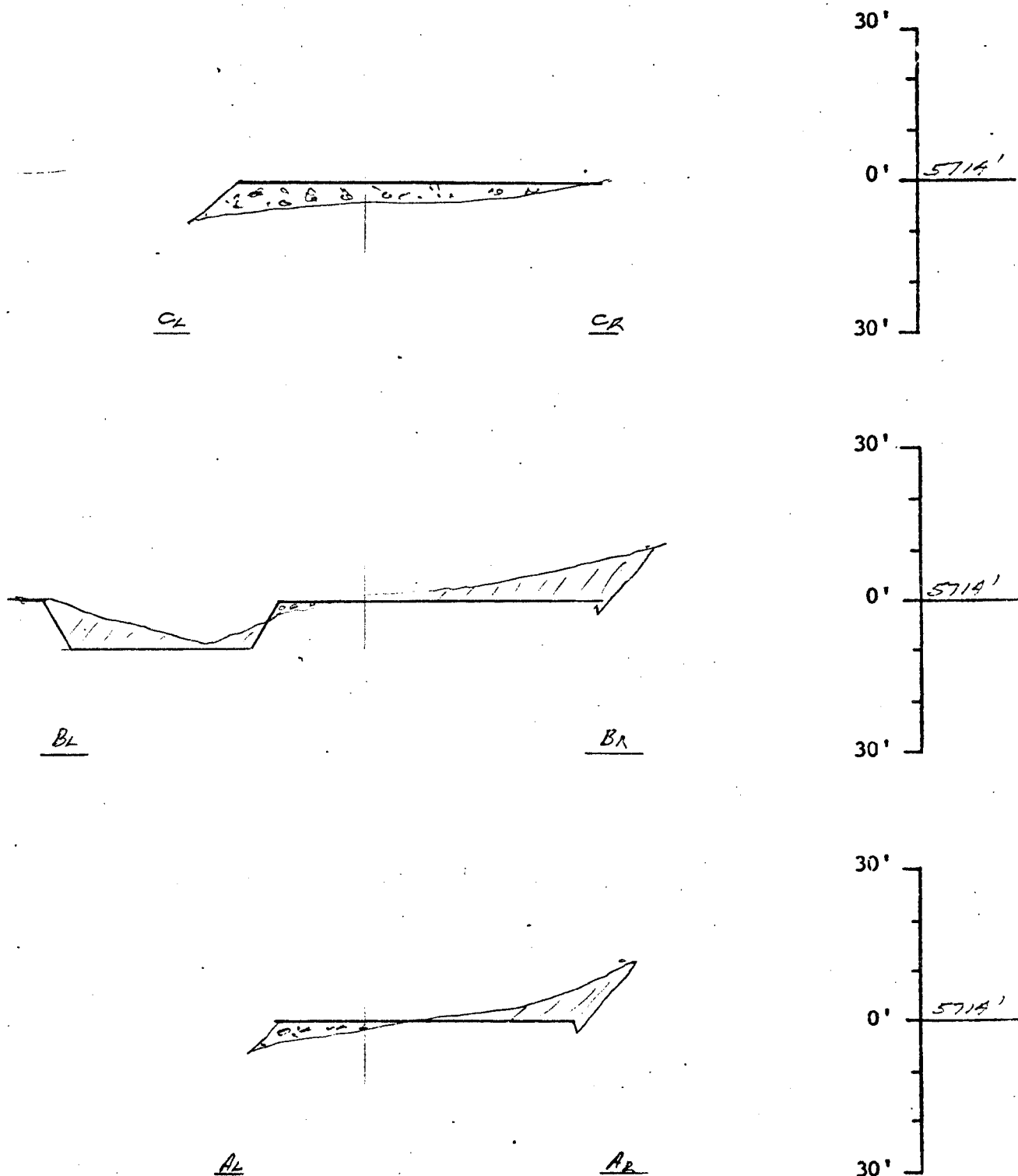
WELL PAD CROSS-SECTION

DIAGRAM #2
 Quana Petroleum Corp.
 Deadman Canyon Federal #4-20
 660' FNL and 690' FWL
 Sec. 20, T37S - R24E
 San Juan County, Utah

Cut 
 Fill 

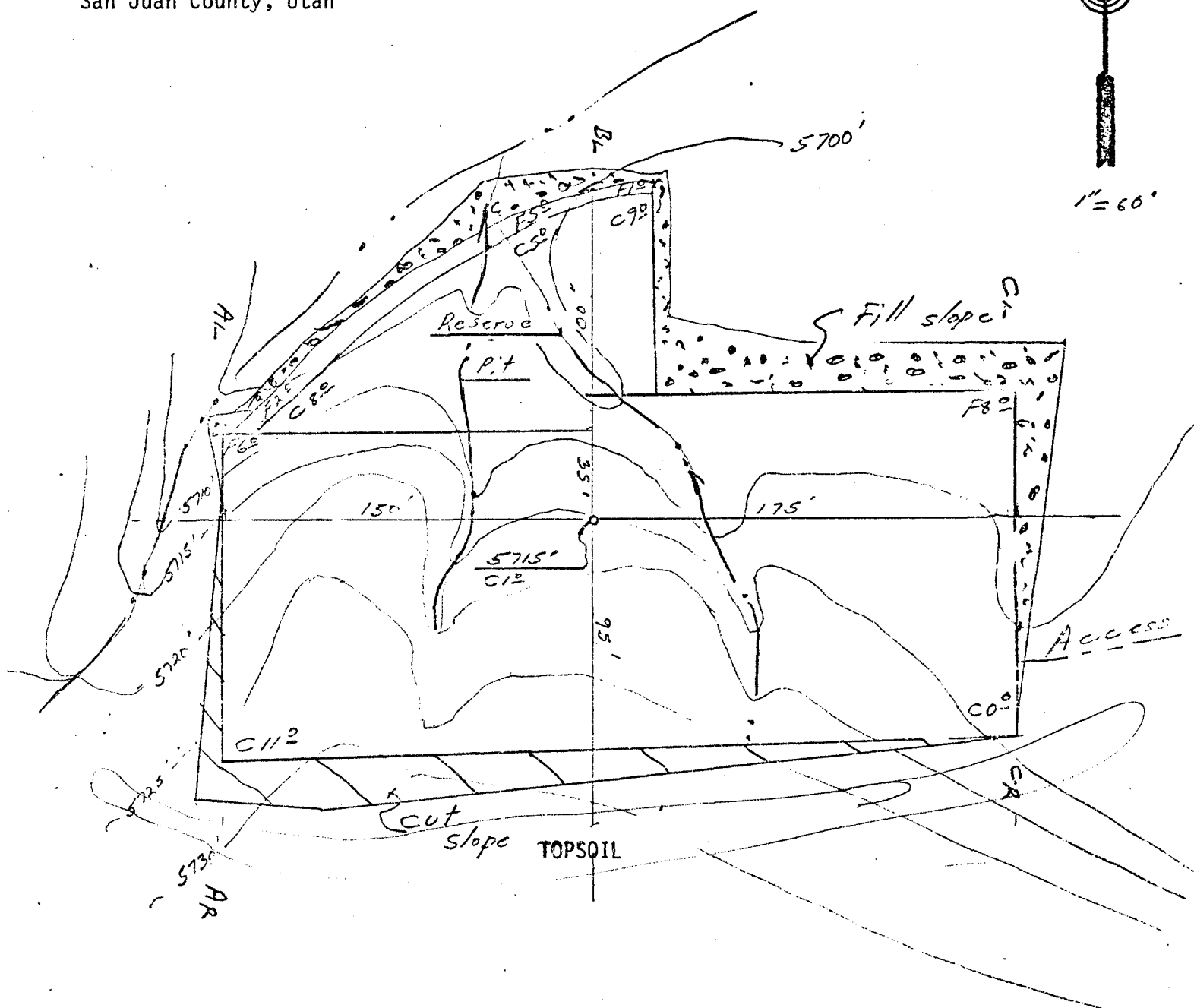
Scales: 1" = 60' H.
 1" = 30' V.

4-20 Deadman Canyon



N

4-20 Deadman Canyon

 $1'' = 60'$ 

CONFIDENTIAL

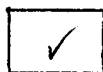
012301

OPERATOR Quintana Petroleum Corp. DATE 1-16-87
WELL NAME Readman Canyon Sid. 4-25
SEC NW NW 20 T 37S R 24E COUNTY San Juan

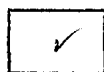
43-037-31305
API NUMBER

Sid
TYPE OF LEASE

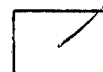
CHECK OFF:



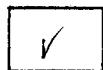
PLAT



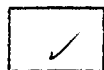
BOND



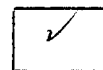
NEAREST
WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well within 920'

Water permit # 84-1500 (T-622247)

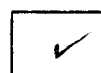
APPROVAL LETTER:

SPACING:



203

UNIT



302



CAUSE NO. & DATE



302.1

STIPULATIONS:

0218T



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 21, 1987

Quintana Petroleum Corporation
c/o Permitco Inc.
P. O. Box 44065
Denver, Colorado 80201-4065

Gentlemen:

Re: Deadman Canyon Fedral 4-20 - NW NW Sec. 20, T. 37S, R. 24E
660' FNL, 690' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.
5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.

Page 2

Quintana Petroleum Corporation

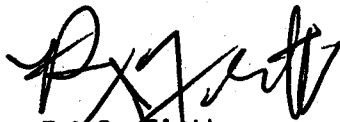
Deadman Canyon Federal 4-20

January 21, 1987

6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31305.

Sincerely,



R. J. Firth

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

D. R. Nielsen

8159T

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

1050-17th Street, Suite 400

Quintana Petroleum Corp. Denver, CO 80265 (303/628-9211)

3. ADDRESS OF OPERATOR

P.O. Box 44065

c/o PERMITCO INC. Denver, CO 80201-4065 (303/322-7878)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

660 FNL and 690' FWL

At proposed prod. zone

NW NW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

22 miles southeast of Blanding, Utah

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

approx. 2000'

16. NO. OF ACRES IN LEASE

1,882.54

19. PROPOSED DEPTH

6270'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5715' GR

22. APPROX. DATE WORK WILL START*

Immediately upon approval

5. LEASE DESIGNATION AND SERIAL NO.

U-57469

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Deadman Canyon Federal

9. WELL NO.

#4-20

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 20, T37S - R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Lisa L. Green

TITLE

Agent for

Quintana Petroleum Corp.

DATE

1/8/87

(This space for Federal or State office use)

PERMIT NO.

43-037-31305

APPROVAL DATE

Acting

Director

APPROVED BY

Kenneth V. Rhea

TITLE

DATE

JAN 21 1987

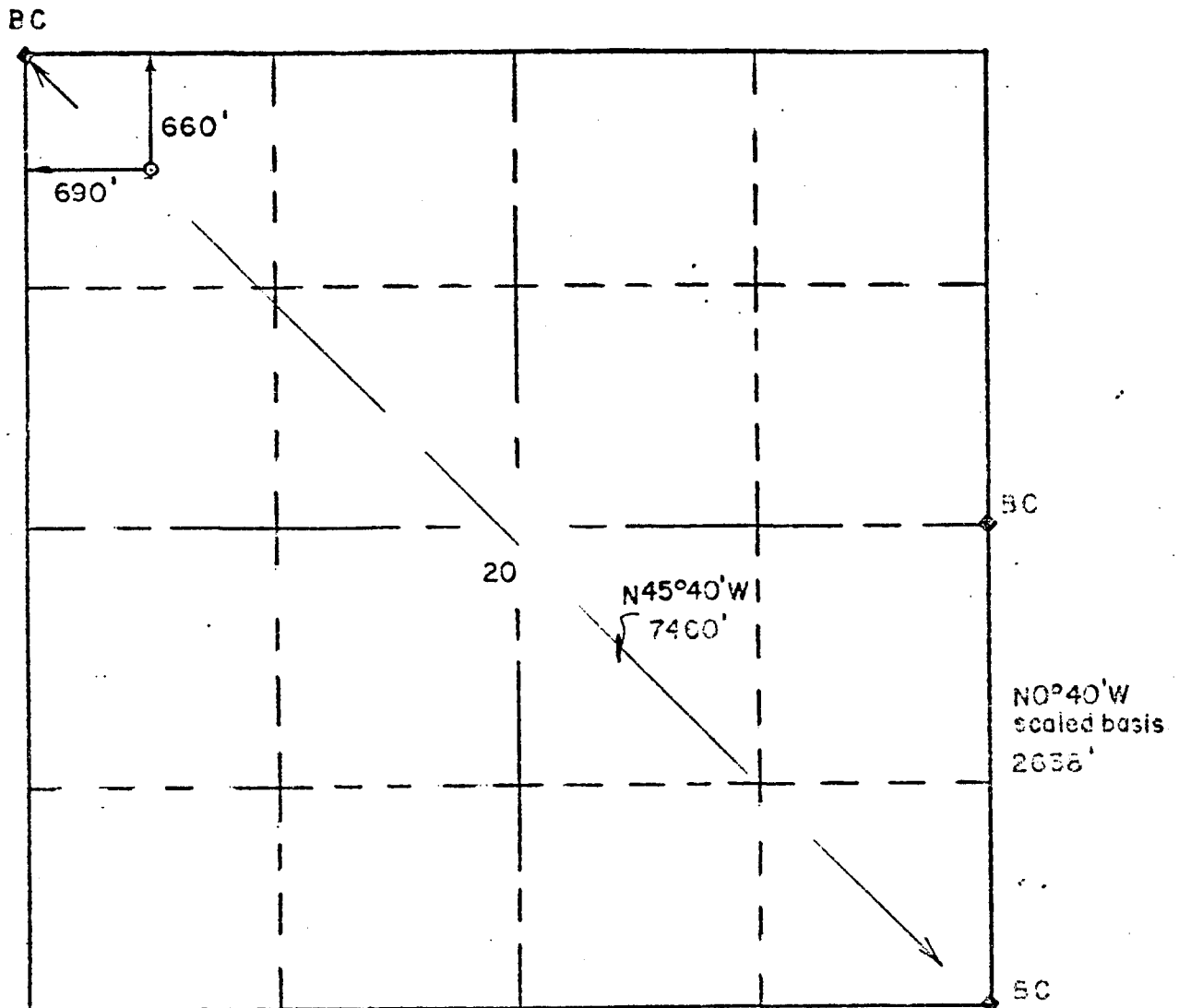
CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WELL LOCATION PLATWELL LOCATION DESCRIPTION:

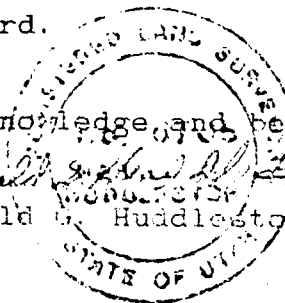
Quintana Petroleum
 Deadman Canyon # 4-20
 660' FNL & 690' FWL
 Section 20, T.37 S., R.24 E., SLM
 San Juan County, Utah
 5715' grd. elevation
 Reference: S 41°24' E, 521', 5782 grd.

CONFIDENTIAL

The above plat is true and correct to my knowledge and belief.

12-28-'86

Gerald G. Huddleston
 Gerald G. Huddleston, LS



Quintana Petroleum Corporation
Well No. Deadman Canyon Federal 4-20
Sec. 20, T. 37 S., R. 24 E.
San Juan County, Utah
Lease U-57469

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONFIDENTIAL

FILING FOR WATER IN THE STATE OF UTAH

030708

21055

Rec. by SA

Fee Paid \$ 15.00

Platted _____

Microfilmed _____

Roll # _____

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

WATER USER CLAIM NO. 09 - 1500

APPLICATION NO. T62247

1. PRIORITY OF RIGHT: January 15, 1987

FILING DATE: January 15, 1987

2. OWNER INFORMATION

Name: Quintana Petroleum Corporation(303-628-9211)

Address: 1050 17th Street, Denver, CO 80265

The land is not owned by the applicant(s), see explanatory.

3. QUANTITY OF WATER: 8.0 acre feet (Ac. Ft.)

4. SOURCE: Artesian Well DRAINAGE: San Juan River

POINT(S) OF DIVERSION:

COUNTY: San Juan

(1) N. 531 feet, W. 1810 feet, from the W $\frac{1}{2}$ Corner of Section 01,

Township 38 S, Range 24 E, SLB&M

Description of Diverting Works: Inch diameter well.

COMMON DESCRIPTION: 8 mi. No. Hatch Trading Post

5. NATURE AND PERIOD OF USE

Oil Exploration From January 15 to January 15.

RECEIVED
FEB 13 1987

6. PURPOSE AND EXTENT OF USE

Oil Exploratio: Oil well drilling

DIVISION OF
OIL, GAS & MINING

EXPLANATORY

The land is owned by Richard and Debra Gore. A letter of permission will be sent to your office by Mrs. Gore.

This application is being submitted for the following wells:

✓1) Deadman Canyon Federal #2-20 (SE4SE4): 43-037-31303 Pow/ismy
N. 500 ft. & W. 780 ft. from SE Cor. Sec. 20, T37S, R24E, SLB&M.

✓2) Deadman Canyon Federal #3-20 (SE4NW4): 43-037-31304 TA
S. 2380 ft. & E. 2180 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.

3) Deadman Canyon Federal #4-20 (NW4NW4): 43-037-31305 Htl. Cont.
S. 660 ft. & E. 690 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.

4) Deadman Canyon Federal #1-28 (NW4NW4): 43-037-31306 row/ismy Cont.
S. 500 ft. & E. 500 ft. from NW Cor. Sec. 28, T37S, R24E, SLB&M.

The estimated period of time to drill each oil well is approx. 25 days.

Spud date is pending approval of the Permit to Drill submitted to the BLM, however, we anticipate spudding the first location on approx. Jan. 20, 1987.

The last location will be spud approx. April 1, 1987 due to a deer winter range stipulation imposed by the BLM.

Appropriate

The applicant hereby acknowledges he/they are a citizen(s) of the
United States or intends to become such a citizen.

The quantity of water sought to be appropriated is limited to that which
can be beneficially used for the purpose herein described.

The undersigned hereby acknowledges that even though he/they may have been assisted in
the preparation of the above-numbered application through the courtesy of the employees
of the Division of Water Rights, all responsibility for the accuracy of the information
contained therein, at the time of filing, rests with the applicant(s).

Signature of Applicant

STATE ENGINEER'S ENDORSEMENT

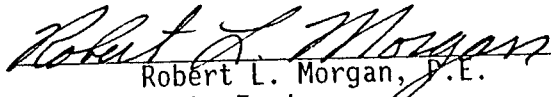
WATER RIGHT NUMBER: 09 - 1500

APPLICATION NO. T62247

1. January 15, 1987 Application received by MP.
 2. January 16, 1987 Application designated for APPROVAL by MP and SG.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated January 30, 1987, subject to prior rights and this application will expire on January 30, 1988.


Robert L. Morgan, P.E.
State Engineer

FILING FOR WATER IN THE STATE OF UTAH

APPLICATION TO APPROPRIATE WATER

#21729

Rec. by SA
Fee Paid \$ 15.00
Platted _____
Microfilmed _____
Roll # _____

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

WATER USER CLAIM NO. 09 - 1504

APPLICATION NO. T62267

1. PRIORITY OF RIGHT: February 2, 1987

FILING DATE: February 2, 1987

2. OWNER INFORMATION

Name: Quintana Petroleum Corporation
phone (303) 628-9211
Address: 1050-17th Street, Denver, CO 80265

FEB 10 1987

The land is not owned by the applicant(s), see explanatory.

DIVISION OF
OIL, GAS & MINING

3. QUANTITY OF WATER: 8.0 acre feet (Ac. Ft.)

4. SOURCE: Two Springs DRAINAGE: San Juan River
POINT(S) OF DIVERSION:

COUNTY: San Juan

- (1) S. 2485 feet, E. 2125 feet, from the NW Corner of Section 20,
Township 37 S, Range 24 E, SLB&M
(2) S. 2510 feet, E. 2150 feet, from the NW Corner of Section 20,
Township 37 S, Range 24 E, SLB&M

Description of Diverting Works: Tank trucks
COMMON DESCRIPTION: 10.5 ml. SE of Blanding

5. NATURE AND PERIOD OF USE

Oil Exploration From January 15 to January 15.

6. PURPOSE AND EXTENT OF USE

Oil Exploration: Oil and gas drilling operations.

7. PLACE OF USE

The water is used in all or parts of each of the following legal subdivisions.

TOWN RANGE SEC	North East Quarter				North West Quarter				South West Quarter				South East Quarter			
	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
37 S 24 E 20						X		X								X
37 S 24 E 28						X										

All locations in Salt Lake Base and Meridian

EXPLANATORY

The land is owned by the BLM - Leased by Quintana for drilling purposes.
Water may be supplemented by trucking water from pond in San Juan County
located: See 09-1500 (T62247). N. 531 ft. & W. 1810 ft. from NW Cor.
Sec. 1, T38S, R24E, SLB&M. Land owned by Richard & Debra Gore - Permit #7854.
Drill site locations are as follows:

Deadman Canyon Fed. #2-20:

N. 500 ft. & W. 780 ft. from SE Cor. Sec. 20, T37S, R24E, SLB&M.

Deadman Canyon Fed. #3-20:

Appropriate

S. 2380 ft. & E. 2180 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.
Deadman Canyon Fed. #4-20:

S. 1100 ft. & E. 820 ft. from NW Cor. Sec. 20, T37S, R24E, SLB&M.
Deadman Canyon Fed. #1-28:

S. 500 ft. & E. 500 ft. from NW Cor. Sec. 28, T37S, R24E, SLB&M.

The applicant hereby acknowledges he/they are a citizen(s) of the
United States or intends to become such a citizen.

The quantity of water sought to be appropriated is limited to that which
can be beneficially used for the purpose herein described.

The undersigned hereby acknowledges that even though he/they may have been assisted in
the preparation of the above-numbered application through the courtesy of the employees
of the Division of Water Rights, all responsibility for the accuracy of the information
contained therein, at the time of filing, rests with the applicant(s).

Signature of Applicant

STATE ENGINEER'S ENDORSEMENT


WATER RIGHT NUMBER: 09 - 1504

APPLICATION NO. T62267

1. February 2, 1987 Application received by MP.
 2. February 2, 1987 Application designated for APPROVAL by MP and SG.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated February 18, 1987, subject to prior rights and this application will expire on February 18, 1988.


Robert L. Morgan, P.E.
State Engineer

Moab District
P. O. Box 970
Moab, Utah 84532

Quintana Petroleum Corp.
1050-17th Street, Suite 400
Denver, CO 80265

	DRY	FILE
WET	JRS	MICROFILM
SLS	DTC	
Corp.		
Suite 400		

Re: Rescinding Application for
Permit to Drill
Well No. Deadman Canyon Federal 4-20
Sec. 20, T. 37 S., R. 24 E.
San Juan County, Utah
Lease U-57469

Gentlemen:

The Application for Permit to Drill the above well was approved January 21, 1987. Since that date, no known activity has transpired at the approved location.

This permit was valid for a period of one year from the date of approval. In view of the foregoing, we are rescinding your Application for Permit to Drill. After permit termination, a new application will be filed for approval of any further operations at this location.

If you have any questions, please contact the Branch of Fluid Minerals
(801) 259-6111.

cc: San Juan Resource Area

State of Utah, Division of Oil, Gas & Mining
Salt Lake City, Utah 84180-1203

Permitco Inc.
Denver, CO 80201-4065

bcc: USO, U-942

CFreudiger/cf 10/20/88

Arlene,
Plz. check
w/ BLM on
rese. date.
Thx.
JRB

RECEIVED
OCT 24 1988

DIVISION OF
OIL, GAS & MINING



State of Utah

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

October 25, 1988

Quintana Petroleum Corp.
1050-17th Street, Suite 400
Denver, Co 80265

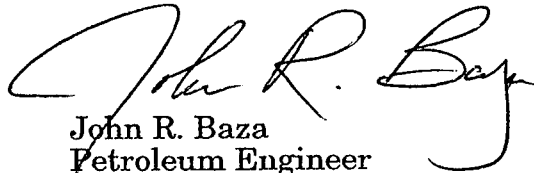
Gentlemen:

Re: Deadman Canyon Federal 4-20, Sec.20, T.37S. R.24E. San Juan County Utah
API NO. 43-037-31305

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,



John R. Baza
Petroleum Engineer

tc

cc: D. R. Nielson
R. J. Firth
BLM-Moab
Well file

0327T